

**FIG. 1**

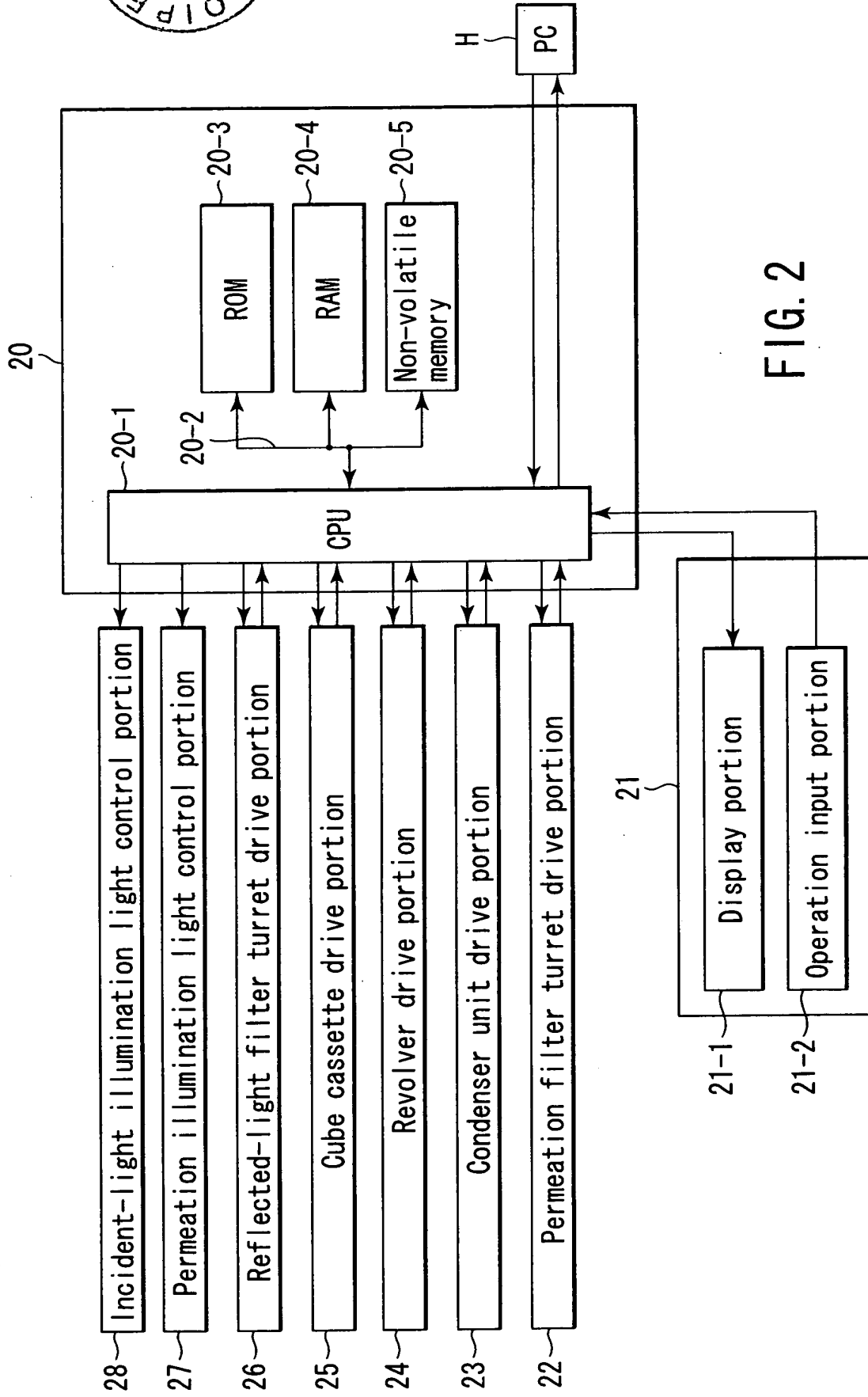


FIG. 2

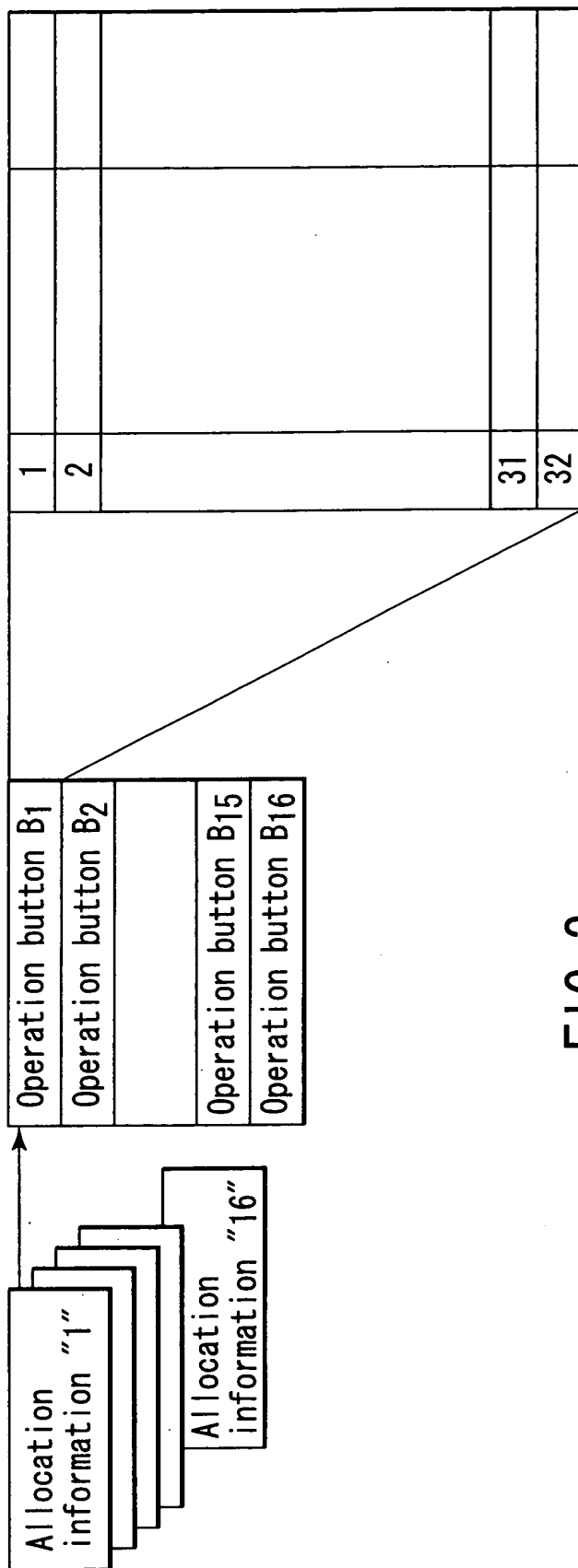
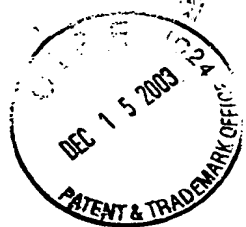


FIG. 3



FIG. 4

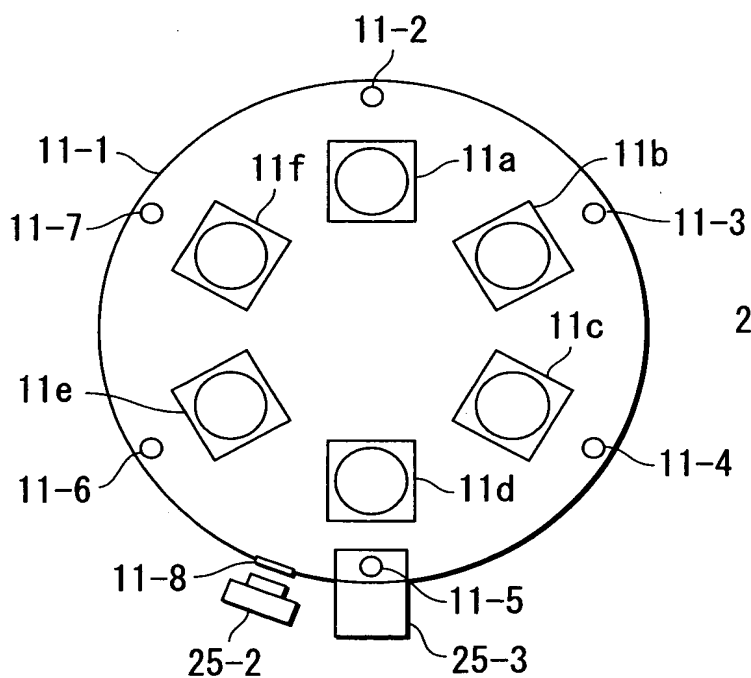
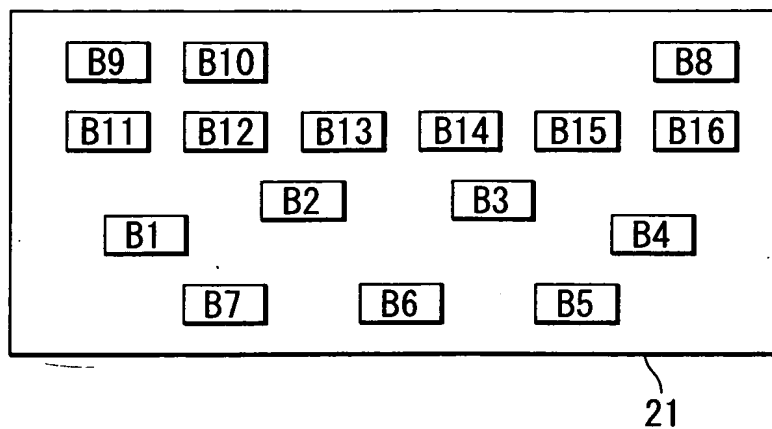


FIG. 5

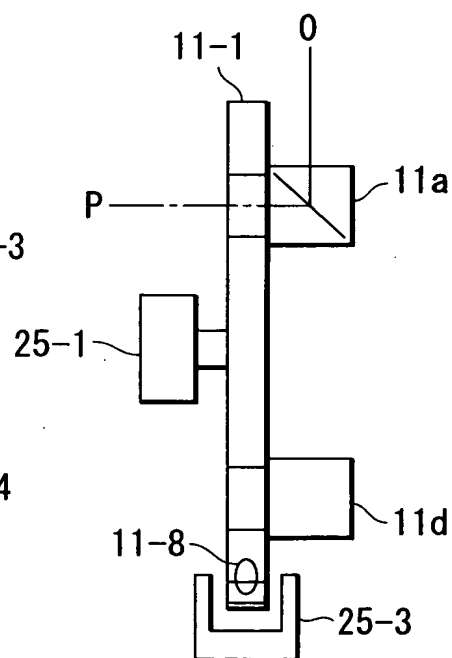


FIG. 6



Part	Position (code)	Attached optical element/meaning
Permeation filter turret 4	1 (4a)	ND6 permeability
	2 (4b)	ND12 permeability
	3 (4c)	ND25 permeability
	4 (4d)	ND50 permeability
	5 (4e)	Nil
	6 (4f)	Douser
Permeation aperture diaphragm 5	0~482	Minimum diameter, Maximum diameter
	+1	
	-1	
Condenser optical element unit 6	1 (6a)	Nil
	2 (6b)	10 x phase difference observation ring slit
	3 (6c)	20 x phase difference observation ring slit
	4 (6d)	Nil
	5 (6e)	Nil
	6 (6f)	Douser
Condenser top lens 7	IN (7a)	
	OUT (7b)	
Revolver/object lens 10/9	1 (9a)	10 x
	2 (9b)	20 x
	3 (9c)	40 x
	4 (9d)	60 x
	5 (9e)	10 x phase difference observation
	6 (9f)	20 x phase difference observation

FIG. 7



Part	Position (code)	Attached optical element/meaning
Cube cassette 11	1 (11a)	Bright field mirror unit
	2 (11b)	Fluorescence G excitation mirror unit
	3 (11c)	Fluorescence B excitation mirror unit
	4 (11d)	Fluorescence U excitation mirror unit
	5 (11e)	Nil
	6 (11f)	Nil
Permeation illumination light source 1	0~120	Light control voltage
	+1	
	-1	
Reflected-light filter turret 16	1 (16a)	ND6 permeability
	2 (16b)	ND12 permeability
	3 (16c)	ND25 permeability
	4 (16d)	ND50 permeability
	5 (16e)	Nil
	6 (16f)	Douser
Reflected-light illumination light source 14	ON	
	OFF	
Position of sample stage 8	0~2000000	0~20[mm]
	+1	
	-1	
AF (auto focusing)	ON	
	OFF	

FIG. 8



Allocation information "1"		Operation button B <sub>1</sub>		Number	Part	Position
				1	Permeation filter turret 4	4
				2	Permeation aperture diaphragm 5	100
				3	Condenser optical element unit 6	1
				4	Condenser top lens 7	IN
				5	Revolver 10	1
				6	Cube cassette 11	1
				7	Permeation illumination light source 1	90
				8	Reflected-light filter turret 16	6
				9		
				31		
				32		

FIG. 9



Allocation "1"		Operation button B2		Number	Part	Position
				1	Condenser optical element unit 6	6
				2	Condenser top lens 7	OUT
				3	Revolver 10	2
				4	Cube cassette 11	3
				5	Reflected-light illumination light source 1	ON
				6	Reflected-light filter turret 16	5
				7		
				31		
				32		

FIG. 10





Allocation "1"		Operation button B3		Number	Part	Position
				1	Permeation illumination light source 1	100
				2	Permeation filter turret 4	4
				3	Permeation aperture diaphragm 5	482
				4	Condenser optical element unit 6	2
				5	Condenser top lens 7	IN
				6	Revolver 10	5
				7	Cube cassette 11	1
				8	Reflected-light filter turret 16	6
				9		
				31		
				32		

FIG. 11

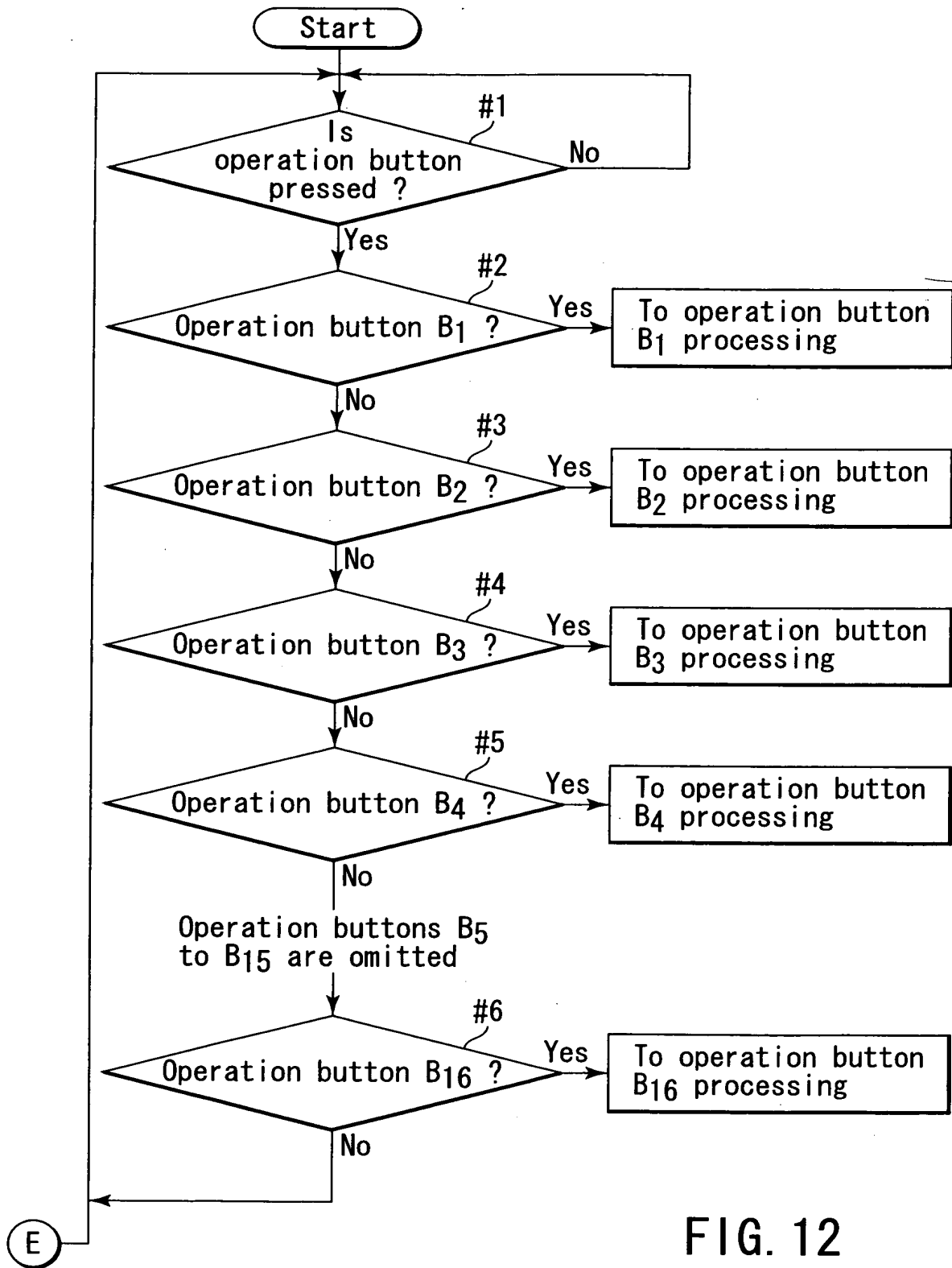


FIG. 12

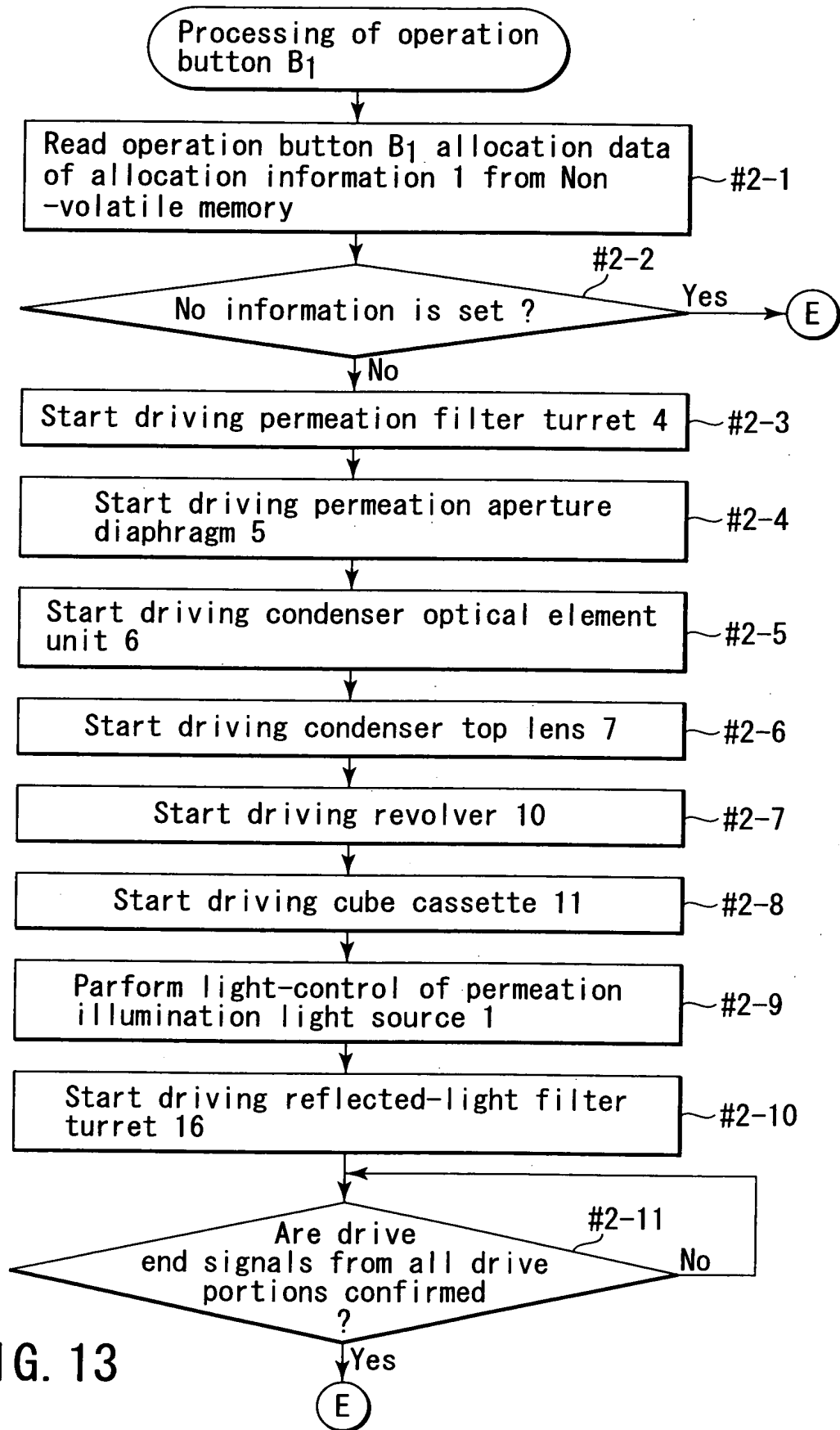
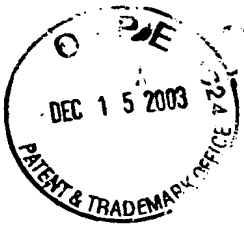


FIG. 13

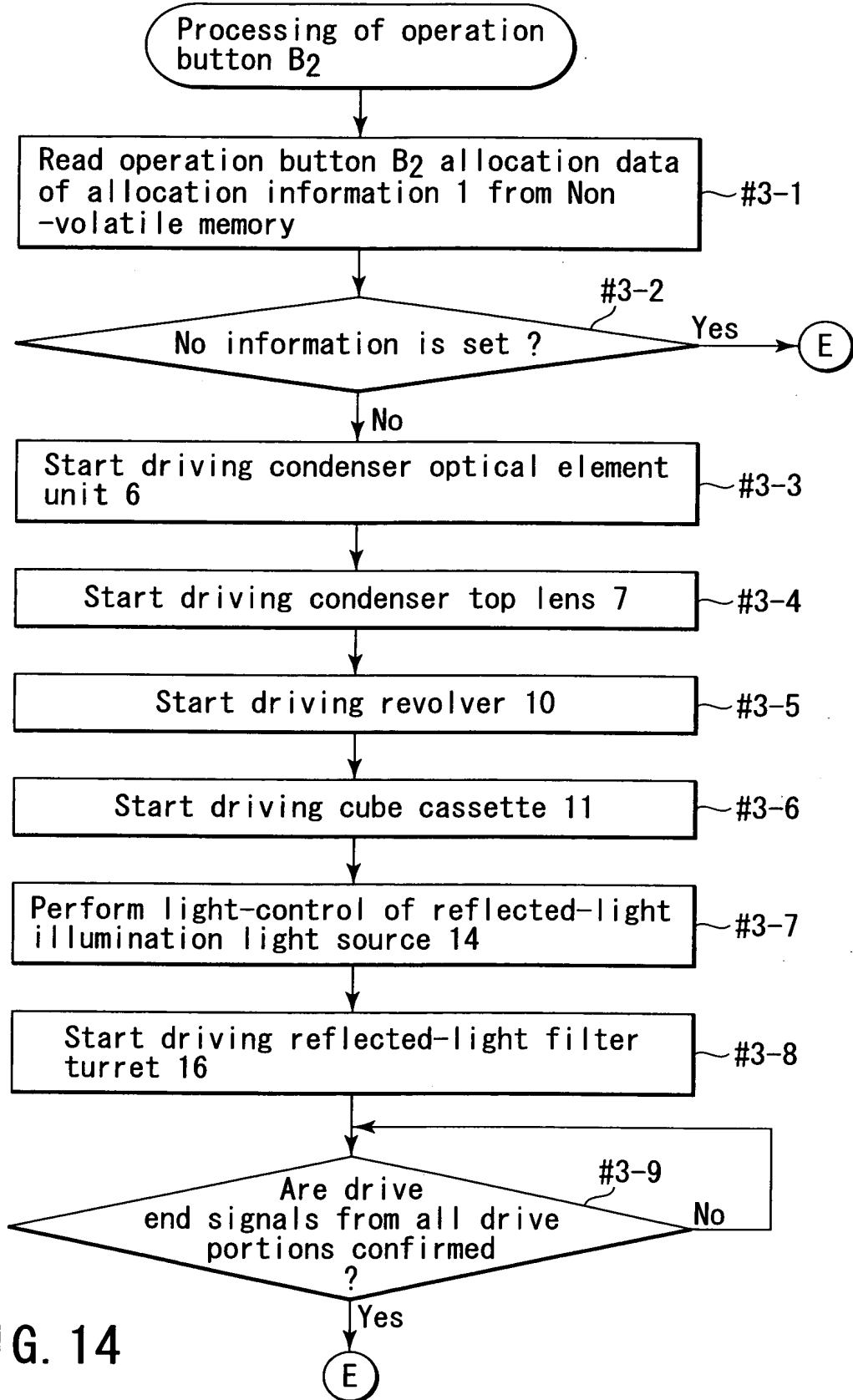


FIG. 14

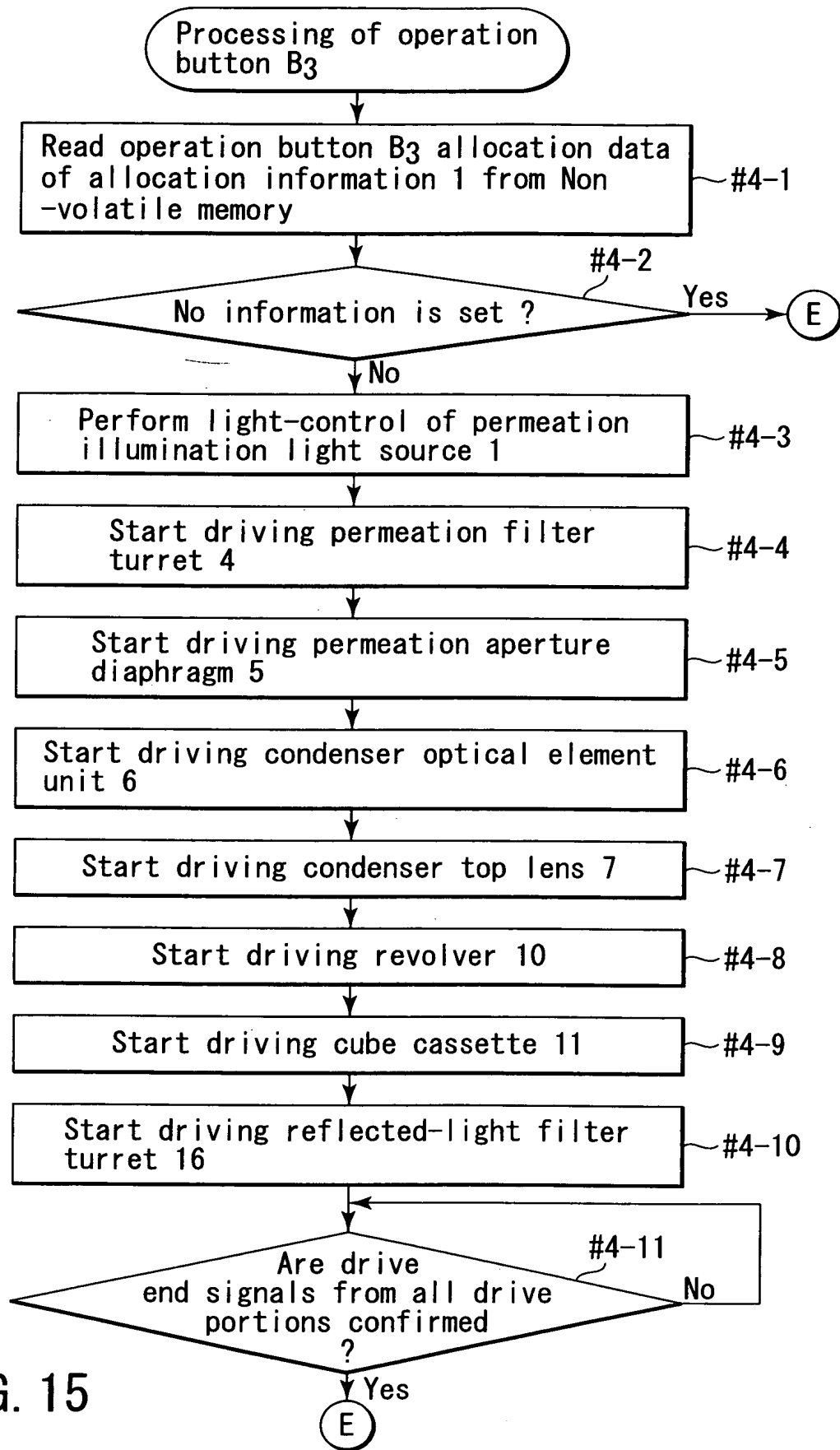


FIG. 15

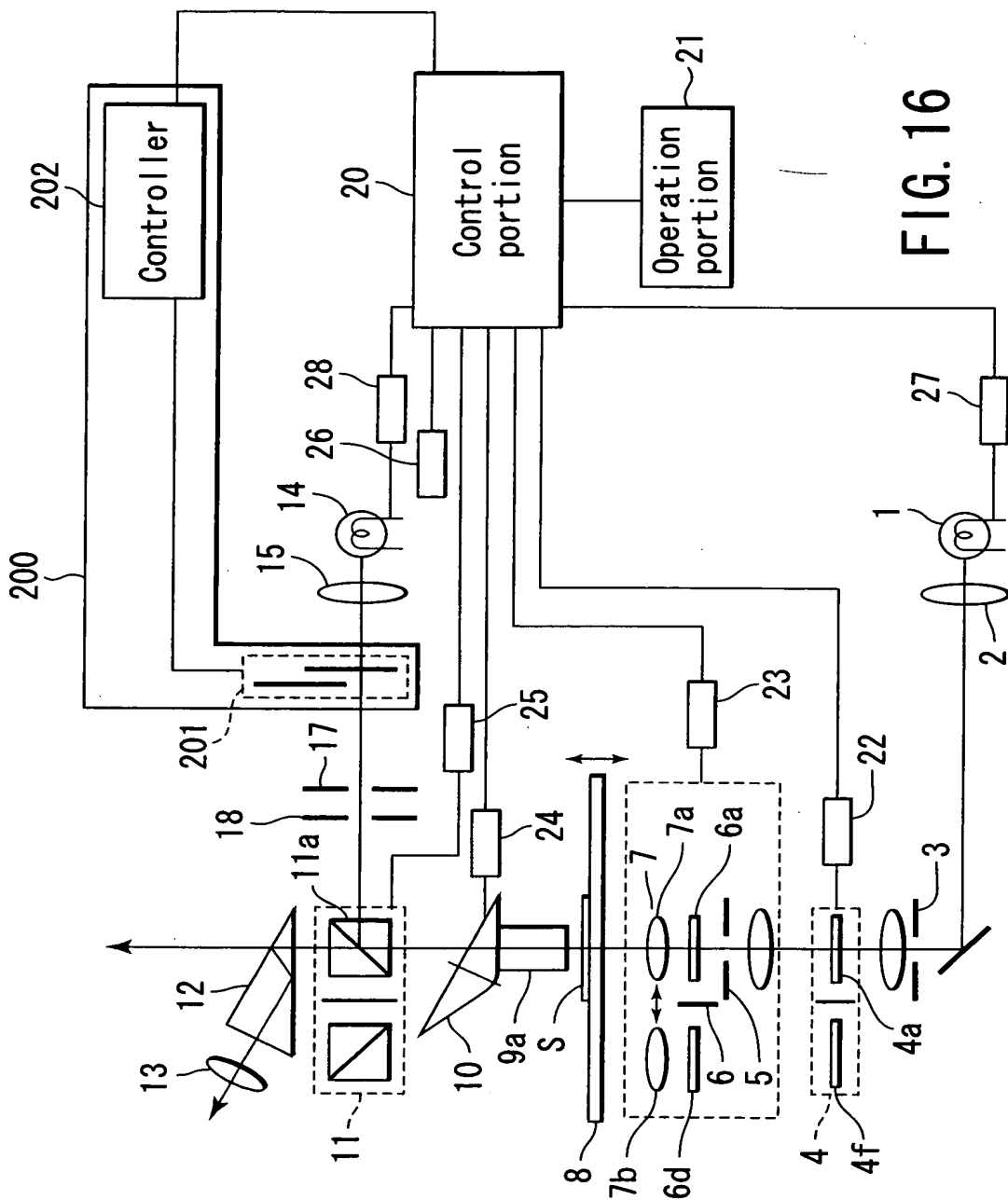


FIG. 16

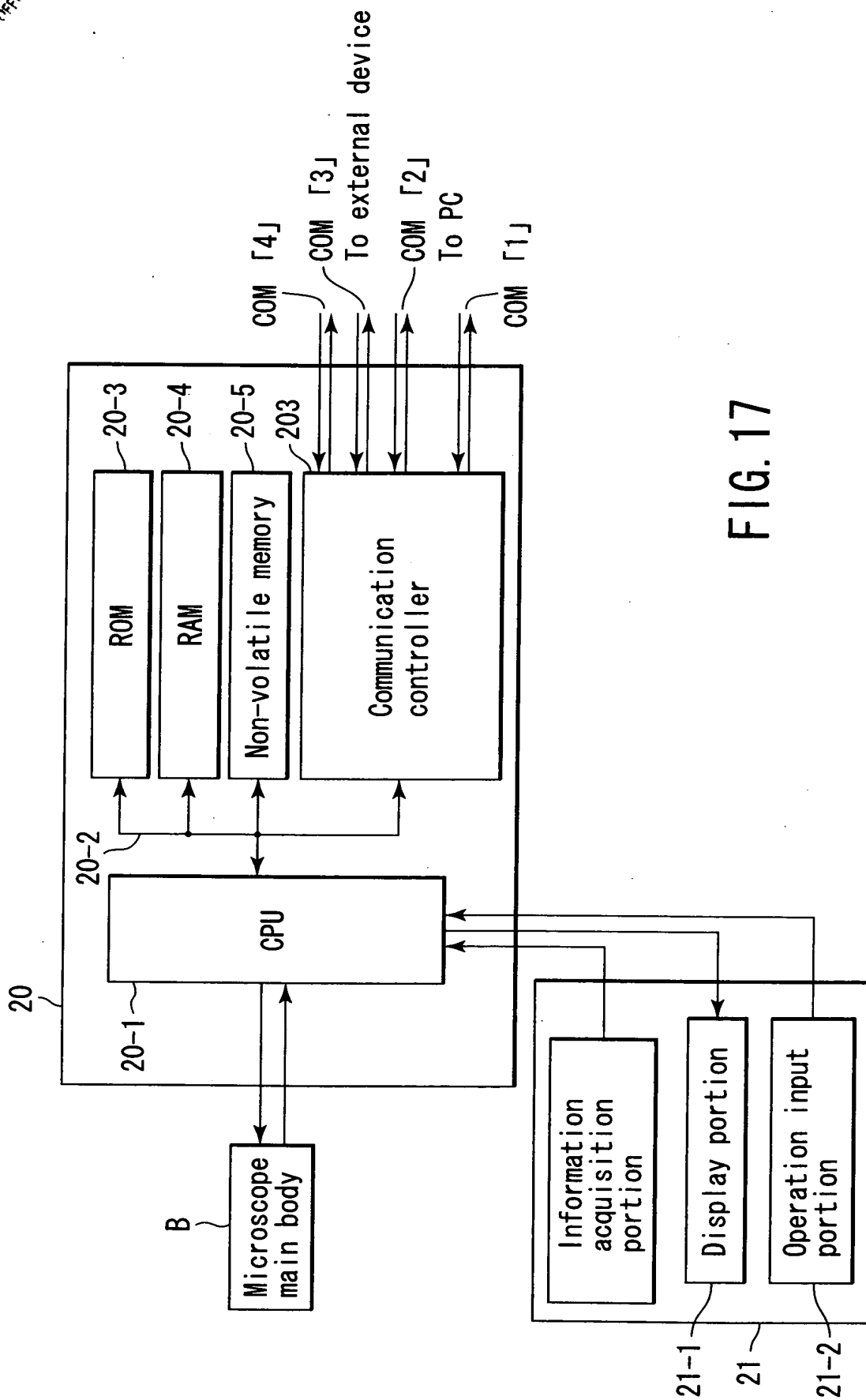


FIG. 17

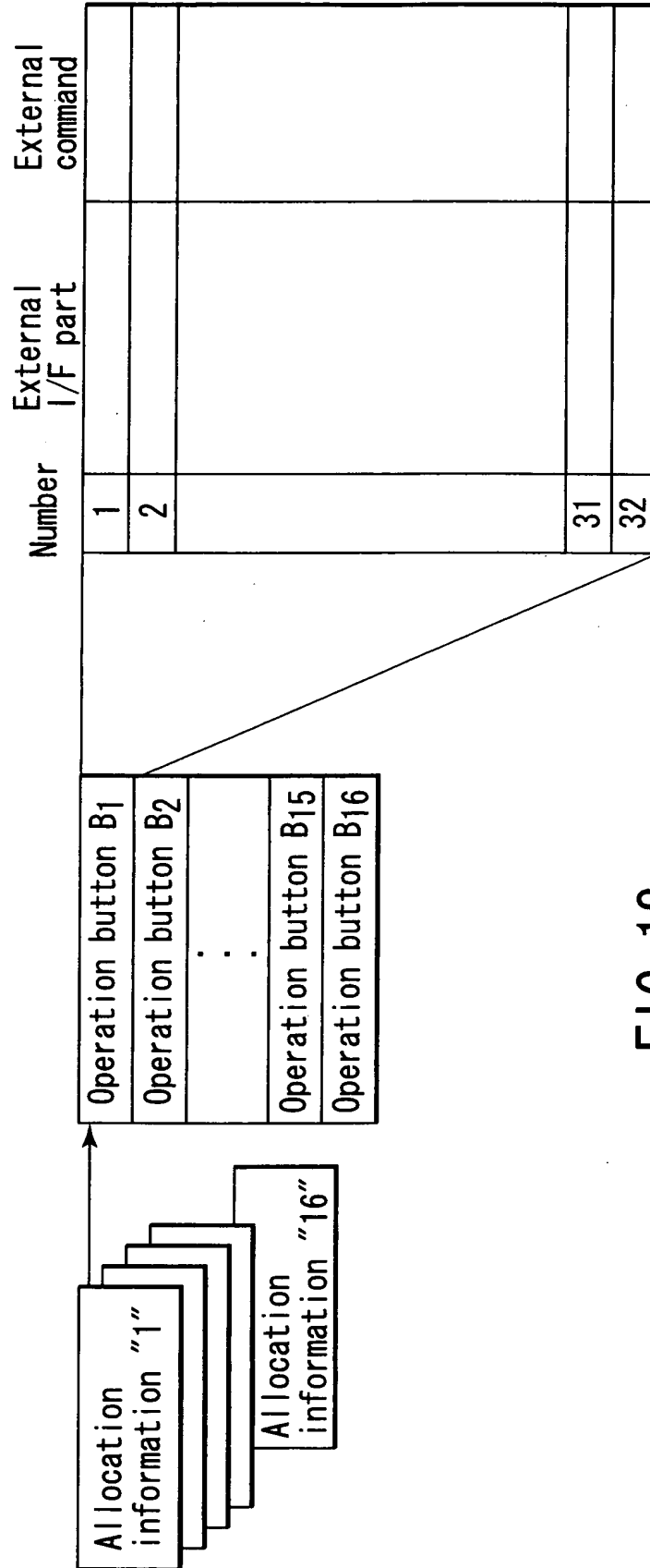


FIG. 18



Controls of high-speed shutter system 2000	Commands of high-speed shutter system 2000
Shutter closing	# 0001
Shutter opening	# 0000

FIG. 19

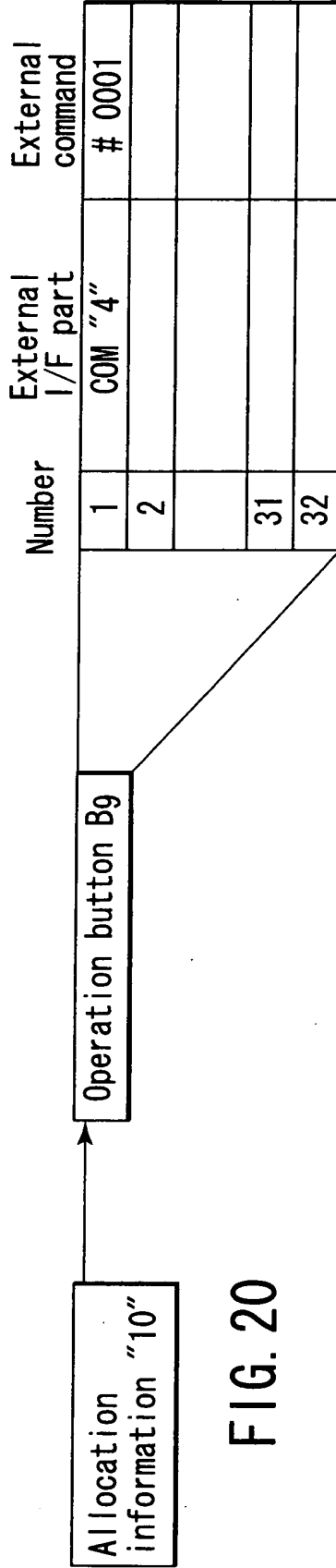


FIG. 20

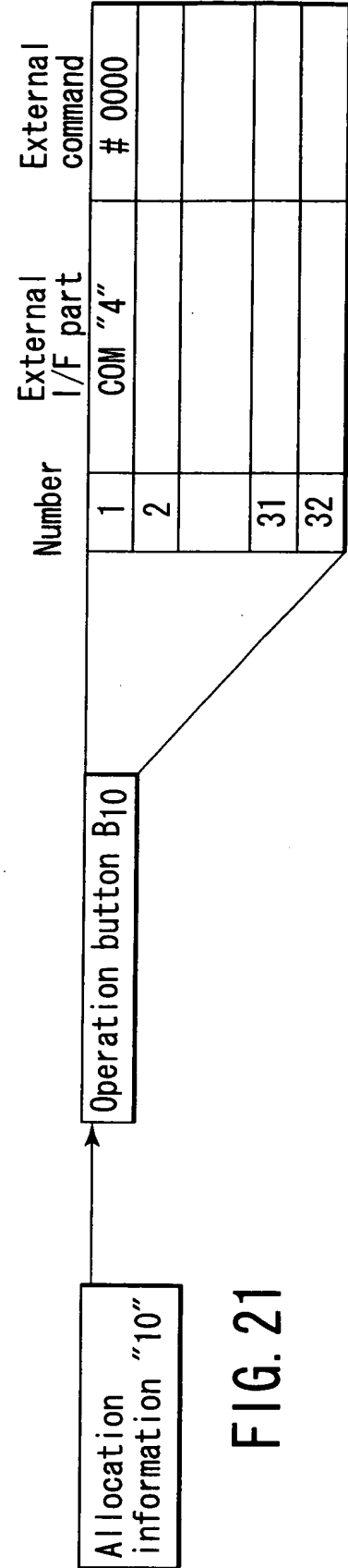


FIG. 21

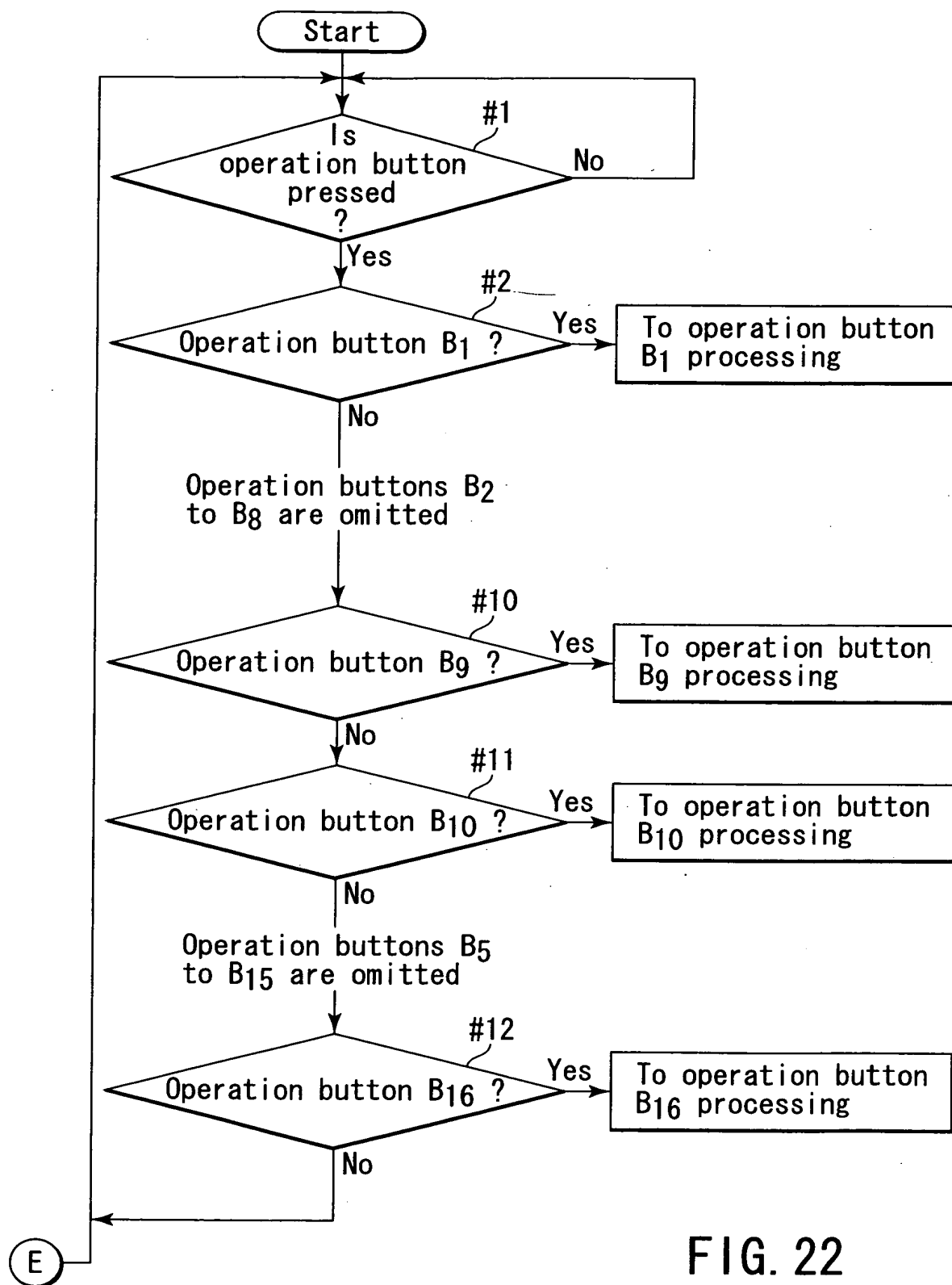


FIG. 22

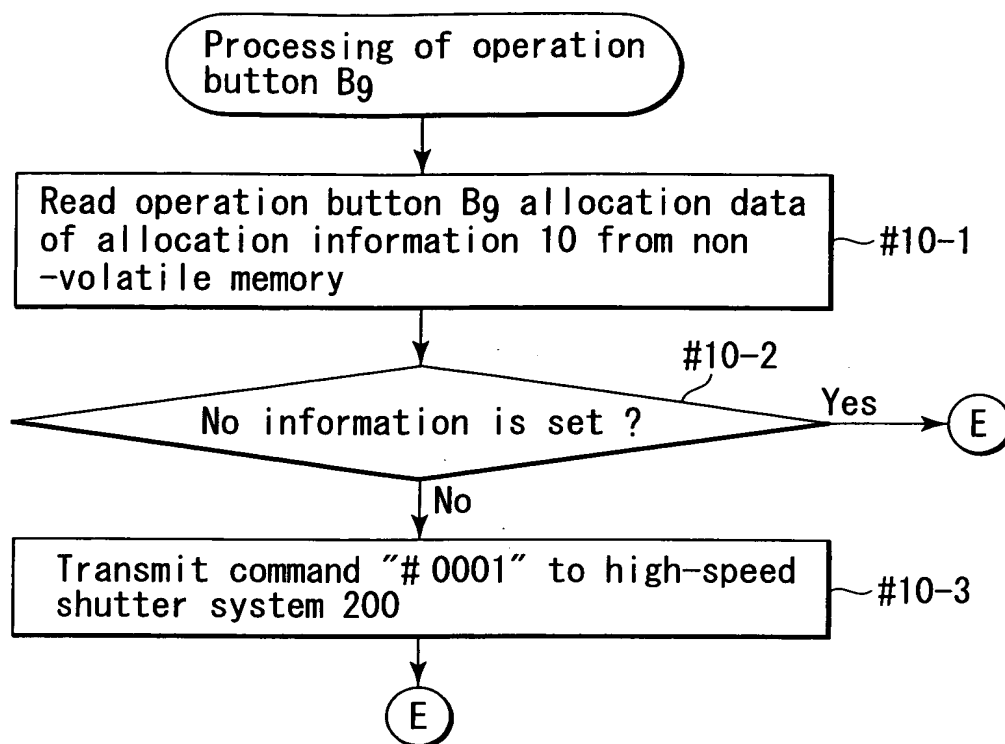


FIG. 23

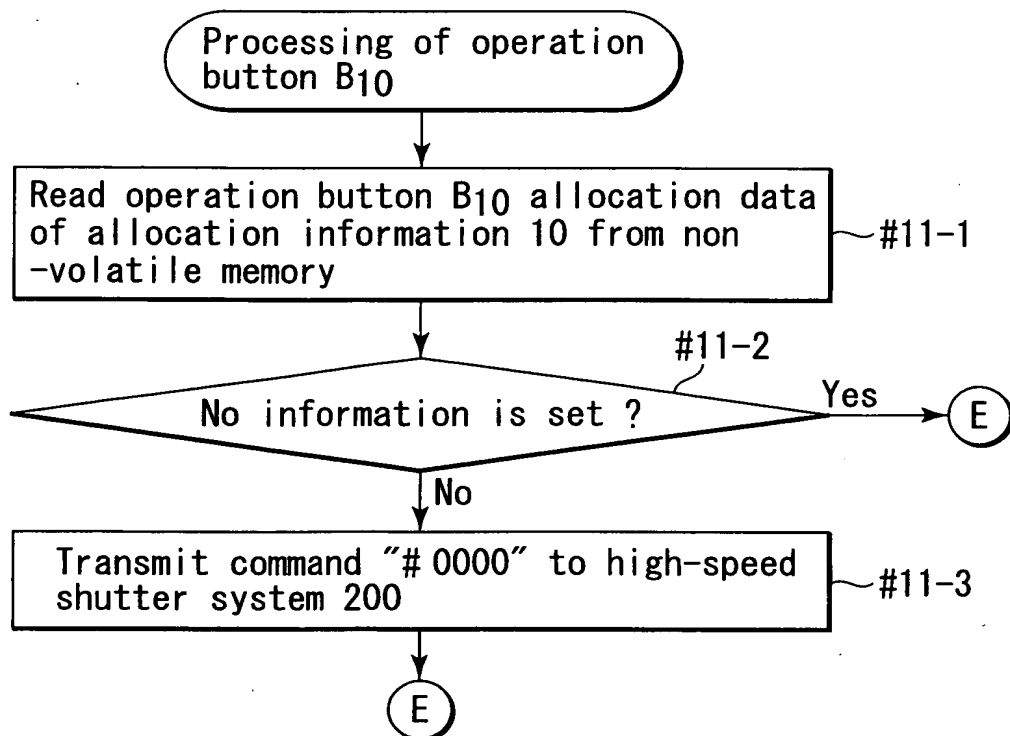


FIG. 24